

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)



Applicant's or agent's file reference 305736WO/PRS	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/IB 2004/002181	International filing date (day/month/year) 30 June 2004	(Earliest) Priority Date (day/month/year) 23 December 2003
Applicant Nokia Corporation et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (see Box No. II)

3. ☐ Unity of invention is lacking (see Box No. III)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 9

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 2004/002181

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04M 1/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04B, H04M, H04N, H04Q, H05K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPO-INTERNAL, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1335567 A1 (SONY INTERNATIONAL GMBH), 13 August 2003 (13.08.2003), column 2, line 34 - column 7, line 59, figures 1-4, abstract --	1-32
Y	US 20030210440 A1 (SHOKO HIROYASU ET AL), 13 November 2003 (13.11.2003), figures 1,6-7, [0048]-[0050],[0055],[0212] --	1-32
Y	US 6549789 B1 (TONY N KFOURY), 15 April 2003 (15.04.2003), column 4, line 33 - column 6, line 11, figures 2-11, abstract --	1-32

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

25 November 2004

Date of mailing of the international search report

26 -11- 2004

Name and mailing address of the ISA/

Swedish Patent Office

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 2004/002181

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6650547 B2 (YOSHINOBY HEMMI ET AL), 18 November 2003 (18.11.2003), column 1, line 1 - column 6, line 56, figures 1-9, abstract --	1-32
Y	US 20020044425 A1 (JARI IJAS ET AL), 18 April 2002 (18.04.2002), figures 1-7, abstract, [0001]-[0050] --	2-17, 21-26, 28-32
Y	US 20030036365 A1 (MITURU KURODA), 20 February 2003 (20.02.2003), figures 1-3, [0005] -- -----	2-17, 21-26, 28-32

INTERNATIONAL SEARCH REPORT

Information on patent family members

30/10/2004

International application No.

PCT/IB 2004/002181

EP	1335567	A1	13/08/2003	NONE		
US	20030210440	A1	13/11/2003	JP	2003264775 A	19/09/2003
US	6549789	B1	15/04/2003	AU	5723501 A	12/11/2001
				CN	1426631 T	25/06/2003
				EP	1293046 A	19/03/2003
				JP	2003533090 T	05/11/2003
				WO	0184729 A	08/11/2001
US	6650547	B2	18/11/2003	CN	1450689 A	22/10/2003
				EP	1339203 A	27/08/2003
				JP	2003249987 A	05/09/2003
				US	20030179555 A	25/09/2003
US	20020044425	A1	18/04/2002	EP	1178649 A	06/02/2002
				FI	20001744 A	04/02/2002
				JP	2002149277 A	24/05/2002
US	20030036365	A1	20/02/2003	CN	1402499 A	12/03/2003
				GB	0219174 D	00/00/0000
				GB	2379828 A,B	19/03/2003
				JP	2003060765 A	28/02/2003